

specification. Applicants further submit herewith a Submission of Formal Drawings that include the proposed changes filed herewith.

IN THE TITLE:

Please replace the Title of the Invention with the following:

-- LIQUID CRYSTAL DISPLAY DEVICE HAVING INJECTION PORTS AND
LIQUID CRYSTAL INJECTION METHOD --

IN THE CLAIMS:

Please replace claims 1, 7, and 15 with the following:

1. (Amended) A liquid crystal display device, comprising:

a thin film transistor substrate, on which a plurality of data lines and gate lines are positioned perpendicular to each other;

a plurality of pixel electrodes formed near intersections of the data lines and the gate lines;

a color filter substrate positioned parallel to the thin film transistor substrate, including a color filter layer, a black matrix and a common electrode formed thereon;

a polymer wall arrangement formed either on the thin film transistor substrate or on the color filter substrate dividing the substrate into a plurality of liquid crystal panels; and

a plurality of liquid crystal injection openings formed on edge portions of each panel of the plurality of liquid crystal panels,

Amended

wherein each of the plurality of liquid crystal injection openings are arranged
along vertical and horizontal line directions.

Amended

7. (Amended) A liquid crystal injection method, comprising:

forming a polymer wall arrangement on a substrate;

dividing the substrate into a plurality of liquid crystal panels by the polymer wall
arrangement;

connecting a plurality of liquid crystal injection openings formed on edge portions
of the substrate and liquid crystal supply sections to the plurality of liquid crystal panels;

generating a vacuum inside at least one panel of the plurality of liquid crystal
panels by pumping through at least one liquid crystal injection opening of the plurality of
liquid crystal injection openings to create a high vacuum state in the panel;

defoaming liquid crystal in a defoamation pressing tank; and

injecting the liquid crystal from the defoamation pressing tank to the panel
through at least one liquid crystal injection opening of the plurality of liquid crystal
injection openings,

wherein each of the plurality of liquid crystal injection openings are arranged
along vertical and horizontal line directions.

15. (Amended) A method for manufacturing a liquid crystal display device, comprising:

arranging a thin film transistor substrate parallel to a color filter substrate,

wherein the color filter substrate has a color filter layer, a black matrix and a common electrode;

forming a polymer wall arrangement, either on the thin film transistor substrate or on the color filter substrate, which divides the substrate into a plurality of smaller liquid crystal panels;

forming a liquid crystal injection opening on each of the small liquid crystal panels along edge portions of the one of the thin film transistor substrate or color filter substrate;

generating a vacuum inside of the substrate by pumping the liquid crystal injection openings;

defoaming a liquid crystal inside of a defoamation pressing tank; and

injecting the liquid crystal from the tank into the substrate through at least one of the liquid crystal injection openings,

wherein each of the plurality of liquid crystal injection openings are arranged along vertical and horizontal line directions.